BRS	BRS	BRS	BRS	IS&R	IS&R
27 packbits	1 dua	2 brac	3 brac	1 ("60	1 ("55
kbits	1 dual adj mode adj data adj compression and agfa.as.	2 brady-thomas.in.	3 brady-thomas.in.	1\("6009242").PN.	1 ("5535311").PN.
USPAT	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB	USPAT; US-PGPUB
10/6/03 16:00	10/8/03 9:35	10/8/03 9:36	10/8/03 9:36	10/8/03 10:18	10/8/03 10:18
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	61 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (select\$5 or determination or determining or determines or choose or choosing or distinguish or distinguishing or differentiate or discern) and (template or calibration)	18 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) same image and (template or calibration)	89 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (select\$5 or determination or determining or determines or choose or choosing or distinguish or distinguishing or differentiate or discern) same image	251 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) and image	54 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (select\$5 or determination or determining or determines or choose or choosing or distinguish or distinguishing or differentiate or discern) and image and compression	26 (((primarily OR mostly OR predominant\$4 OR generally) near2 white) OR USPAT; US-PGPUB ((primarily OR mostly OR predominant\$4 OR generally) near2 black)) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) and image and compression
	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB
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JSPAT; US-PGPUB	27 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 USPAT; US-PGPUB OR considerabl\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 black)) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) and image and compression
JSPAT; US-PGPUB	337 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 USPAT; US-PGPUB OR considerabl\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 black)) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern)
USPAT; US-PGPUB	101 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determine or choose or choosing or distinguish or distinguishing or differentiate or discern)
USPAT; US-PGPUB	655 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone)
USPAT; US-PGPUB	30 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (template or calibration or calibrate or templates) and image?
USPAT; US-PGPUB	51 (((primarily OR mostly OR predominant\$4 OR generally or average) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally or average) near2 black)) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) and (template or calibration or calibrate or templates) and image?

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160 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 black) OR monochrom\$6 OR binary OR bi?level) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) and image and compression and page and band	160 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 black) OR monochrom\$6 OR birlevel) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) and image and compression and page and band	1105 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 black) OR monochrom\$6 OR binary OR bi?level) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) and image and compression	1105 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 USPAT; US-PGPUE OR considerabl\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 black) OR monochrom\$6 OR binary OR bi?level) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determine or choose or choosing or distinguish or distinguishing or differentiate or discern) and image and compression
USPAT, US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB

binary OR bi?level) same (color OR multi?level OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determine) same (select\$5 or determination or distinguish or distinguish or differentiate or choose or choosing or distinguish or distinguishing or differentiate or discern or discriminat\$5) and image and compression and page and band  8 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 black) OR monochrom\$6 OR binary OR bi?level) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern or discriminat\$5) and image and compression and page and band and sugiura.in.  4 (("4739397") or ("4953013")).PN.  USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB OR considerabl\$4 OR substantial\$4 OR generally OR significant\$4 USPAT; US-PGPUB	USPAT: US-PGPUB	USPAT, US-PGPUB	210 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 USPAT; US-PGPUB OR considerabl\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabl\$4 OR substantial\$4) near2 black) ) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern or discriminat\$5) same image	0 20020025072.URPN. USPAT	0 20020025072.URPN. USPAT		and yamaai.in.	20 382/199.ccls. and ricoh.as. USPAT; US-PGPUB	considerabi\$4 OR substantial\$4) near2 black) OR monochrom\$6 OR binary OR birlevel) same (color OR multirlevel OR (continuous adj tone) OR continuous?tone) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern or discriminat\$5) and image and compression and page and band  8 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabi\$4 OR substantial\$4) near2 black) OR monochrom\$6 OR binary OR predominant\$4 OR generally OR significant\$4 OR considerabi\$4 OR substantial\$4) near2 black) OR monochrom\$6 OR binary OR birlevel) same (color OR multirlevel OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determines or determine or choose or choosing or distinguish or distinguishing or differentiate or discern or discriminat\$5) and image and compression and page and band and sugiura.in.  4 (("4739397") or ("4953013")).PN.  4 (("4739397") or ("4953013")).PN.  OR considerabi\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabi\$4 OR substantial\$4) near2 white) OR (continuous adj1 tone) OR continuous?tone) same (select\$5 or determination or determining or determines or choose or choosing or distinguish or distinguishing or differentiate or discern or discriminat\$5) same image  210 (((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR considerabi\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR onsiderabi\$4 OR substantial\$4) near2 white) OR ((primarily OR considerabi\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR onsiderabi\$4 OR substantial\$4) near2 white) OR ((primarily OR mostly OR predominant\$4 OR generally OR significant\$4 OR onsiderabi\$4 OR substantial\$4) near2 white) OR (primarily OR predominant\$4 OR generally OR significant\$4 OR onsiderabi\$4 OR su
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	29 ancin.in.	USPAT: US-PGPUB: EPO: DERWENT: IBM

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15 System for compressing image data having blank lines	19930209	USPAT		1 US 5185820 A	_ 0
11 Image processing system	19921208	USPAT	_	1 US 5170263 A	0
21 System for printing bound documents	19920602			1 US 5119206 A	c
23 Information signal transmission system	19890110			1 US 4797741 A	0
16 SYSTEM FOR COMPRESSION OF DIGITAL DATA	19740528			1 US 3813485 A	0
33 Image processing apparatus and image processing method	20030703	US-PGPUB	,	1 US 20030123085 A1	0
59 Image processing apparatus and method, computer program, and computer readable storage medium	20030508			1 US 20030086127 A1	0
24 Flexible networked image processing	20020718	US-PGPUB		1 US 20020093679 A1	0
28 Dual mode data compression for operating code	20020530	US-PGPUB		1 US 20020063641 A1	. 0
26 Image processing apparatus and method and program storage medium	20020207	US-PGPUB		1 US 20020015171 A1	0
19 Method and apparatus for pre-processing mixed raster content planes to improve the quality of a decompressed image and increase document compression ratios	20010503	US-PGPUB		1 US 20010000711 A1	
 26 Data encoding scheme with switchable compression	19990512	EPO		1EP 915413 A1	c
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	1 US 5602976 A	1 US 5588069 A	1 US 5552898 A	1 US 5539865 A	1 US 5535311 A	1 US 5504591 A	1 US 5488483 A	1 US 5479587 A	1 US 5416606 A	1 US 5315404 A	1 US 5274761 A	1 US 5249053 A	
-	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	
	19970211	19961224	19960903	19960723	19960709	19960402	19960130	19951226	19950516	19940524	19931228	19930928	
	8 Method and apparatus for saving printer memory	26 Image processing apparatus for advantageously encoding blocks of data having either substantially the same or varied colors	8 Lossy and lossless compression in raster image processor	17 Method and apparatus for processing data for a visual-output device with reduced buffer memory requirements	Method and apparatus for image-type determination to enable choice of an optimum data compression procedure	16 System and method for compressing graphic images	15 Facsimile with user selective compression methods	29 Page printer having adaptive data compression for memory minimization	17 Method and apparatus for encoding or decoding an image in accordance with image characteristics	24 Image processing method and apparatus for processing an image signal in each of a plurality of processing modes	6 Imaging system with image buffer for exposing film on a substrate	9 Filmless digital camera with selective image compression	

1 US 5615314 A			0 0	0	0		0		. 0	0	0	0
19970311 19970325 19970401 19970429 19981027 19990316 19990406 19991012 19991012 19991026 19991026	1 US 5999272 A		1 US 5974179 A	1 US 5966465 A	1 US 5930466 A	1 US 5892847 A	1 US 5883976 A	1 US 5828816 A	1 US 5625712 A	1 US 5617517 A	1 US 5615314 A	1 US 5611024 A
	USPAT		USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	USPAT
13 Interface for providing rasterized data to an imaging device  13 Two-dimensional method and system for compressing bi-level images  10 Iterative compression of digital images  12 Image processing apparatus and image processing method  37 Selectively utilizing multiple encoding methods  88 Method and apparatus for compressing images images  70 Compression/decompression using reversible embedded wavelets  70 Compression/decompression using selective encoding slices  70 Compression using selective encoding  12 Data compression using selective encoding  13 Balancing compressed storage requirements with decompression times during punt protection processing in a page printer	19991207		19991019	19991012	19990727	19990406	19990316	19981027	19970429	19970401	19970325	19970311
	8 Balancing compressed storage requirements with decompression times during punt protection processing in a page printer	decompression	12 Data compression using selective encoding	70 Compression/decompression using reversible embedded wavelets	22 Method and apparatus for data compression of bitmaps using rows and columns of bitmapped printer data divided into vertical slices	88 Method and apparatus for compressing images	37 Selectively utilizing multiple encoding methods	12 Image processing apparatus and image processing method	10 Iterative compression of digital images	13 Two-dimensional method and system for compressing bi-level images	13 Interface for providing rasterized data to an imaging device	26 Data compression of bit map images

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		1 US 6378007 B1	1 US 6343157 B1	1 US 6337747 B1	1 US 6285458 B1	1 US 6181435 B1	1 US 6038033 A	1 US 6021227 A
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		23 Data encoding scheme	37 Image coding system, image decoding system, image processing system, image coding method, image decoding method, and image processing method	17 System to a	26 Image processing apparatus and method	21 Image forming method and apparatus	22 Method and apparatus for compressing and decompressing print data in the background operations of a printer	12 Image compression system including encoder having run mode
		ing schem	ng system age proces nod, imaga essing me	daptively	essing ap	ing metho	apparatusing print of a printe	pression s mode
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1 US 6469805 B1 1 US 6552819 B2 1 US 6583887 B1 1 US 6587583 B1 1 US 6687583 B1	i i	15 Image file format for storing graphical matter and related information	20030923	USPAT	1 US 6624909 B1	0
1 US 6469805 B1 USPAT 20021022 1 US 6552819 B2 USPAT 20030422 1 US 6583887 B1 USPAT 20030624 1 US 6583888 B1 USPAT 20030624		11 Information processing apparatus, information processing method, memory medium storing program readable by information processing apparatus, and print control system	20030902	USPAT	1 US 6614544 B2	0
USPAT 20021022 10 Post raster-image processing controls for digital color image processing controls for US 6552819 B2 USPAT 20030422 11 Image processing apparatus and method  1 US 6563887 B1 USPAT 20030624 10 Method and apparatus for data compression		44 Compression/decompression algorithm for image documents having text, graphical and color content	20030701	USPAT	1 US 6587583 B1	0
1 US 6469805 B1 USPAT 20021022	·, [	11 Image processing apparatus and method  10 Method and apparatus for data compression	20030422	USPAT	1 US 6552819 B2	0
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US 5185820		0	. 0	0	0	0	· 	Miyata, Masahiko	382/244	358/1.9; 382/238	382/244
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US 5170263	0 US Full	0	0	0	_	0	1	Hisatake,		358/448	358/3.29
US 5119206	0 US Full Umage	. 0	0	0		0		Rourke, John L. et al.		358/401; 358/450; 358/452; 358/453	358/296
US 4797741	0 US Full Image	0	0	0		0		Sato, Chikara et al.	382/232	382/232	375/240.08
US 3813485	0 US Full ( Image	0	0	0	0			Arps, Ronald Barthold	382/244	348/552; 375/240; 382/244	382/238
US 2003012308 5	0 PGPubs Full I Image	0	0	0	1	0	. 1	Kato, Katsunori			358/1.15
US 2003008612 7	0 PGPubs Full US Image 200 7	<u> </u>	. 0	0		0		lto, Naoki et al.		358/426.02	358/462
US 2002009367 9	0 PGPubs Full US Image 200	0	0	0		0		Brady, Thomas P.	358/1.15		358/1.15
US 2002006364 1	0 PGPubs Full Image	o	0	. 0		0	1	Fish, Wilson Massey			341/87
US 2002001517 1	0 PGPubs Full Image	0	0	0		0		Tsunekawa, Kiyohiro		358/1.15	358/1.13
US 2001000071 1	0 PGPubs Full I Image	0	o	0		0		Queiroz, Ricardo L. de et al.	382/232	345/555; 382/232	382/264
EP 915413 A1	0 Foreign Full I Image	0	0	0				SOUTHWEL L, SIMON DAVID et al.			

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0	0		o	 Deschuytere, Frank A.		358/1.15; 358/426.13; 382/237	382/244
0	0			 Gentile, Ronald S.	358/1.15	358/1.15	358/1.16
0	o		0	 Zimmerman, Gary	358/1.15	358/1.13	358/1.15
. 0	o		. 0	 Dujari, Rajeev	358/426.04	382/197	358/426.04
0	o		0	 Murayama, Masahiro		358/426.16; 358/500; 358/539	382/251
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0			. 0	 Katayama, Akihiro et al.	358/426.04	358/426.04; 358/447; 358/539; 358/540; 382/166; 382/232; 382/248	382/239
0			0	 Kuboki, Keiju et al.	358/426.02	347/3; 358/448	358/426.02
0	0		0	 Davidson, Bruce L. et al.		358/448	345/539
0	0			 Jain, Jaswant R.		358/906; 375/240.03; 375/240.2; 375/240.24	348/207.99

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US 5999272	0 US Full Image	0	0	. 0		. 0		Dow, Richard M. et al.	358/1.15	358/1.1; 358/1.14; 358/1.17	358/1.15
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US 5970177	0 US Full Image	0	0	0	1	0		Chinnock, Douglas P.	358/1.15	358/1.15	382/244
US 5966465	0 US Full Image	0	0	0		0		Keith, Alexander F. et al.	382/232	382/233; 382/248; 382/260	382/232
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US 5625712	0 US Full Image	0	0	0		0		Schoenzeit, Loren et al.		382/239	382/232
US 5617517	0 US Full Image	. 0	0	0		0	-1	Chi, Shan	358/1.15	358/1.13; 358/1.16	358/1.15
US 5615314	0 US Full Image	0	0	.0		0		Schoenzeit, Loren et al.	358/1.15	358/1.1	358/1.15
US 5611024	0 US Full Image	0	0			0		Campbell, Scott O. et al.	358/1.15	358/1.16	358/1.15

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	341/58; 341/59; 341/61; 341/65; 369/47.1; 369/47.15; 382/244; 710/12; 710/33; 710/70; 714/755; 714/756	382/244	358/1.17	358/1.13	341/107; 341/51; 358/1.12; 358/426.04; 358/426.07; 358/450; 375/240.12; 382/173; 382/175; 382/232; 382/239	358/1.1; 358/1.13; 358/1.15; 358/1.17; 358/404; 358/444; 358/448	382/232
		382/244	358/1.15	358/1.15	358/426.04	358/1.15	330/420.02
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i	0	-	0	 Kurzweil, Raymond C. et al.	382/166; 382/239	358/462; 382/166; 382/176; 382/239	382/164
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	0		0	 Osawa, Hidefumi et al.		358/1.2; 382/239	358/1.17
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347/900; 358/1.13	347/5	13 System and method of applying double printing modes	20020219	USPA	US 634/852 B	
358/1.15; 358/1.17; 358/1.18	358/1.16	22 Printing apparatus	20010501	USPAT	1 US 6226099 B1	
358/1.13	358/1.15	38 Print controller, printer, data transfer method, and printing condition setting method	19991228	USPAT	1 US 6009242 A	
347/44; 347/47; 347/9; 358/1.16; 358/1.17	347/3	55 Color office printer with a high capacity digital page image store	19991116	USPAT	1 US 5984446 A	
	345/604	11 Method and system for selectively rendering image data in a bi-level or multi-level format	19971021	USPAT	1 US 5680526 A	
358/1.9; 358/406; 358/463; 358/464; 358/518	358/296	31 Automated image calibration	19930209	USPAT	1 US 5185673 A	
358/3.24; 358/461	358/3.21	16 Method and apparatus for calibrating halftone output from an imagesetting device	19921208	USPAT	1 US 5170257 A	
	358/1.12	22 Seamless multi-page spreads	20030109	US-PGPUB	1 US 20030007167 A1	
358/1.18; 358/1.9	400/76	23 Printer, printing system, control method for these printer and printing system, and storage medium	20010927	US-PGPUB	1 US 20010024584 A1	
		15 Image printing system and partitioned printing method therein	19990630	A2, A3   EPO	1 EP 926586 A2   A2	

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-	US 6347852	0 US Full Image		0	0		0		Chen, Liang- Chih
	US 6226099	US Full Image	0	0	0		0		Sugaya, Akio
	US 6009242	0 US Full Image		0 0	0	<u>-</u>	0	· .	Anzai, Katsuhiko
	US 5984446	US Full Image	0	0		0	0		Silverbrook, Kia
	US 5680526	0 US Full Image		0			0		Andresen, Kevin W. et al.
	US 5185673	0 US Full Image	0		. 0		0	· _	Sobol, Robert E.
0	US 5170257	0 US Full Image	0	0	0	0	o		Burns, James M.
0	US 2003000716 7	PGPubs Full Image	0	0	0	0	0		Catt, Jeremy C. et al.
	US 2001002458 4	0 PGPubs Full Image	0	0	0		0		Kurosawa, Hidenori
	EP 926586 A2	0 Foreign Full Image	0				0		KIM, JONG- SAN

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